

AMENDMENT TO THE SPECIFICATION

Page 13, line 24 to Page 14, line 4, amend the paragraph as follows:

Experiments have been completed with human blood cells using a similar electrode arrangement to those shown in Figures 3A and 4. The electrodes used were  $8\mu\text{m}$  wide with  $17\mu\text{m}$  inter-electrode spacing in the central channel regions. Experiments were completed at very high cell concentrations with a dilution of 10 times of whole blood, a concentration of approximately  $5 \times 10^8$  cells per millilitre (~~f.e.~~ i.e., 500 million cells per cubic centimetre). Multi-phased signals were connected to the electrodes and the blood cells moved with TWD forces. A dilution of 20 times whole blood (~~f.e.~~ i.e., a concentration of approximately  $2.5 \times 10^8$  cells per millilitre) was found to be preferable where separation rather than just the movement of particles is desired, particularly where there is a large disparity in concentration between the cells to be separated. Disparity between cell concentrations was considerable, there being approximately 700 red blood cells for every white cell.